

(12) UK Patent Application (19) GB (11) 2 075 368 A

- (21) Application No 8122404
(22) Date of filing 23 Oct 1980
(30) Priority data
(31) 2947025
(32) 22 Nov 1979
(33) Fed Rep of Germany (DE)
(43) Date of issue
18 Nov 1981
(51) INT CL¹ (as given by ISA)
B05D 5/08
F16C 33/20
(52) Domestic classification
B2E 440T 516T 603T KB
(56) Documents cited by ISA
DE A 2206400
DE A 2033067
DE A 2366046
GB A 1564128
DE A 2305696
DE A 2818184
FR A 2307034
DE A 2000632
(58) Field of search by ISA
INT CL¹ F16C 33/20; B05
D7/16; 7/00, 5/08

- (71) Applicants
Glyco Metall Werke
Daelen & Loos GMBH
Stielstrasse 11,
6200 Wiesbaden N. W.
Germany
(72) Inventors
Danilo Sternisa
Erich Hodes
Walter Schneider
(74) Agents
Withers & Rogers
4, Dyer's Buildings
Holborn
London EC1N 2JT

(54) Composite material with two or a plurality of layers

(57) Composite material with two or a plurality of layers with a coating layer (5) which is applied directly on the rough surface (2) of a substrate and which comprises a lake base of polyimid and at least one finely spread additive in said base. Upon forming the coating layer (5) as a friction or sliding layer, such layer may contain about 99 to 60% by volume, preferably 90 to 80% by volume of thermo-setting polyimid lake and about 1 to 40% by volume, preferably 10 to 20% by volume of self-lubrication additives, particularly low molecular weight PTFE, with a grain size comprised between 5 and 7 μm . For manufacturing said composite material, the powder additive is intimately mixed with the polyimid lake and homogenized until it becomes slightly viscous or pasty, deposited on the metal substrate and fixed thereto by sintering.

